

BRUHAT BANGALORE MAHANAGARA PALIKE

Vidyaranyapura ZONE

Name of Work: Estimate for Construction of Class Rooms at Doddabommasandra in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division.

		Estimate Cost Rs.						2000000.00	
SI No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications Specification NO. KBS 4.6.2 Page No. 16/ Item No. 4.28/ PWD SR 2013-14	Sqm							
	Column		20	1.36		3.50	95.20		
							95.20	223.66	21292.00
	Basic Rate	208.00							
	Lift Charges for First Floor	3.00							
		211.00							
	Area Weightage @ 6%	12.66							
	Total	223.66							
2	KSRB 4-6.10 : Providing and removing centering, shuttering, strutting, propping etc., for chajjas , corbels etc., including edges including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 17/ Item No. 4.37/ PWD SR 2013-14	Sqm							
			4	2.50	0.60		6.00		
							6.00	245.92	1476.00
	Basic Rate	229.00							
	Lift Charges for First Floor	3.00							
		232.00							
	Area Weightage @ 6%	13.92							
	Total	245.92							
3	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs , landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (P.16 / I.4.29) PWD SR 2013-14	Sqm							
	Plinth		2	25.00		0.30	15.00		
			2	5.10		0.30	3.06		
	For Lintel		2	25.00		0.20	10.00		
			2	5.10		0.20	2.04		
	Tie Beam		2	25.00		0.30	15.00		
			2	5.10		0.30	3.06		
	Centre Beams		4	5.10		1.15	23.46		
	Roof Slab		1	25.00	7.00		175.00		
	Allround Sides		2	13.00	0.20		5.20		
			2	5.10	0.20		2.04		
							253.86	287.26	72924.00
	Basic Rate	268.00							
	Lift Charges for First Floor	3.00							
		271.00							
	Area Weightage @ 6%	16.26							
	Total	287.26							

SI No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
4	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs with 20mm and down size graded granite metal coarse aggregates @ 0.878cum and fine aggregates @ 0.459 cum wuth superplastisier @ 3lts confirming to IS 9103-1999 reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, wall (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.6 Page No. 13/ IItem No. 4.11 PWD SR - 2013-14	Cum							
	Columns		20	0.45	0.23	3.50	7.25		
	Plinth		2	25.00	0.23	0.30	3.45		
			2	5.10	0.23	0.30	0.70		
	Lintel		2	25.00	0.23	0.20	2.30		
			2	5.10	0.23	0.20	0.47		
	Tie Beam		2	25.00	0.23	0.30	3.45		
			2	5.10	0.23	0.30	0.70		
	Beams		4	7.00	0.23	0.45	2.90		
	Roof Slab		1	25.00	7.00	0.15	26.25		
			1	25.00	4.70	0.15	17.63		
							65.09	5588.32	363771.00
	Basic Rate	5222.00							
	Lift Charges for First Floor	50.00							
		5272.00							
	Area Weightage @ 6%	316.32							
	Total	5588.32							
5	KSRB 4.2.10 : Providing and laying in position reinforced cement concrete of mix M20 with OPC cement @ 24kgs, with 12 mm and down size graded granite metal coarse aggregates @ 0.5175 cum and fine aggregates @ 0.345 cum with superplastisier @ 0.225lts, machine mixed, well compacted for plain chajja of 7.5 cms. average thickness, upto ground floor level, including cost of all materials, labour, HOM of machinery, curing, complete as per specification. Specification NO. KBS 4.1, 4.6 Page No. 15 / Item No. 4.19 / PWD SR 2013-14	Sqm							
	Windows		4	2.25	0.60		5.40		
							5.40	409.16	2209.00
	Basic Rate	383.00							
	Lift Charges for First Floor	3.00							
		386.00							
	Area Weightage @ 6%	23.16							
	Total	409.16							

SI No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
6	KSRB 4.9.2: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 TMT Bars Fe 500 Page No. 19/ Item No. 4.46.2 PWD SR 2013-14	Qntl							
	For Roof, Columns & Beams @ 120 Kg / Cum		1.20	65.09			78.11		
	Chajjas @ 10 Kg / Cum		0.10	5.40			0.54		
							78.65	7312.94	575190.00
	Basic Rate	6899.00							
	Area Weightage @ 6%	413.94							
	Total	7312.94							
7	KSRB 6-5.3 : Providing and constructing burnt brick masonry with approved quality of modular bricks of standard size of class designation 50 (table moulded) with cement mortar 1:6 for basement and superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. Specification No. KBS 6.2 Page No. 32/Item No. 6.17/ PWD SR 2013-14	Cum							
	Long Wall		2	25.00	0.23	3.30	37.95		
			2	5.10	0.23	3.30	7.74		
			2	25.00	0.23	0.45	5.18		
	Parapet Wall		2	5.10	0.23	0.45	1.06		
							51.92		
	Deductions								
	Doors 1		2	1.20	0.23	2.10	1.16		
	Windows		4	1.20	0.23	1.80	1.99		
	Lintel Alround		2	25.00	0.23	0.30	3.45		
			2	5.10	0.23	0.30	0.70		
	Tie Beam		2	25.00	0.23	0.30	3.45		
			2	5.10	0.23	0.30	0.70		
							-11.45		
							40.47	5842.72	236446.00
	Basic Rate	5462.00							
	Lift Charges for First Floor	50.00							
		5512.00							
	Area Weightage @ 6%	330.72							
	Total	5842.72							

SI No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
8	KSRB 10-2: Providing and laying integral cement based waterproofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc, consisting of following application. (a) Applying and grouting a slurry coat of neat cement using 2.75kg/sqm conforming admixed with proprietary water proofing compound conforming to IS:2645 over the RCC slab after cleaning the surface before treatment, (b) laying cement concrete using broken brick bats 25mm to 100mm size with 50% of cement mortar 1:5 admixed with proprietary water proofing compound conforming IS:2645 over 20mm thick layer of cement layer of cement mortar 1:5 admixed with proprietary water proofing compound to required slope and treating similarly the adjoining walls upto 300mm height including rounding off junction of walls and slabs, (c) after two days of proper curing, applying a second coat of cement lurry admixed with proprietary water proofing compound (d) Finishing the surface with 20mm thick jointless cement mortar of mix 1:4 admixed with proprietary water proofing compound and finally finishing the surface with	Sqm							
			1	25.00	7.00		175.00		
							175.00	782.28	136899.00
	Basic Rate	735.00							
	Lift Charges for First Floor	3.00							
		738.00							
	Area Weightage @ 6%	44.28							
		782.28							
9	KSRB 15.3.13 : Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. Page No. 123 / Item No. 15.21 / PWD SR -2013-14	Sqm							
			1	25.00	10.20		255.00		
			1	25.00	1.35		33.75		
	Beams		4	10.20	0.45		18.36		
							307.11	166.42	51109.00
	Basic Rate	154.00							
	Lift Charges for First Floor	3.00							
		157.00							
	Area Weightage @ 6%	9.42							
	Total	166.42							
10	KSRB 15.3.11 :Providing 20mm thick cement plaster in single coat with cement mortar 1:4, to stone masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. Page No. 123 / Item No. 15.19 / PWD SR 2013-14 (Inside wall)	Sqm							
	Rooms		2	25.00		3.30	165.00		
			2	5.10		3.30	33.66		
							198.66		

SI No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Deductions		2	1.20		2.10	5.04		
	Doors 1		4	1.20		1.80	8.64		
	Windows						13.68		
							184.98	202.46	37451.00
	Basic Rate	188.00							
	Lift Charges for First Floor	3.00							
		191.00							
	Area Weightage @ 6%	11.46							
	Total	202.46							
11	KSRB 15-7 : Providing lime rendering for plastering to wall and ceiling, including cost of materials, labour, curing complete as per specifications. P. 124 / I. 15.33 PWD SR - 2013-14.	Sqm							
			Qty Vide Item No. 9+10				492.09	22.26	10954.00
	Basic Rate	18.00							
	Lift Charges for First Floor	3.00							
		21.00							
	Area Weightage @ 6%	1.26							
	Total	22.26							
12	KSRB 15.3.9: Providing 18mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications Page No. 123 / Item No. 15.17 / PWD SR 2013-14 (Out side Wall)	Sqm							
	Back		2	25.00		4.13	206.50		
	Front		2	5.10		4.13	42.13		
							248.63		
	Doors 1		2	1.20		2.10	5.04		
	Windows		4	1.20		1.80	8.64		
							13.68		
							234.95	168.54	39598.00
	Basic Rate	156.00							
	Lift Charges for First Floor	3.00							
		159.00							
	Area Weightage @ 6%	9.54							
	Total	168.54							
13	KSRB 9.4-2 : Providing Honne wood frames of doors, windows, clerestory windows, ventilators, and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, HOM of machineries complete as per specifications. Specification No. KBS 9.33. Page No. 56 / Item No. 9.11 / PWD SR 2013-14	Cum							
	Doors		1x2	2.10	0.15	0.10	0.06		
	Windows		4x2	1.80	0.10	0.075	0.11		
			4x4	1.20	0.10	0.075	0.14		
							0.32	105458.87	33220.00
	Basic Rate	99487.00							
	Lift Charges for First Floor	2.50							
		99489.50							
	Area Weightage @ 6%	5969.37							
	Total	105458.87							

SI No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
14	KSRB 9-27.1 : Fixing of door frame in an existing opening including embedding Nos 458.43 frame in floor and walls after cutting masonry for holdfasts for embedding holdfast in cement concrete 1:3:6 of 20 mm and down size granite metal painting two coats of coal tar to sides of frame, making good the damages to walls and floor as required and disposal of the debries with lead upto 50 m. including cost of materials, labour charges, complete as per Specification. Page No. 62 / Item No. 9.80 / PWD SR 2013-14	Nos							
	Doors		2				2.00	925.91	1852.00
	Basic Rate	871.00							
	Lift Charges for First Floor	2.50							
		873.50							
	Area Weightage @ 6%	52.41							
	Total	925.91							
15	KSRB 9.5-2: Providing and fixing in position fully panelled Honne wood shutters for doors, styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures).Specification No.9.34. Page No. 57 / Item No. 9.15 / PWD SR 2013-14	Sqm							
			2	1.05		2.10	4.41	4504.47	19865.00
	Basic Rate	4247.00							
	Lift Charges for First Floor	2.50							
		4249.50							
	Area Weightage @ 6%	254.97							
	Total	4504.47							
16	KSRB 9-19.2: Providing and fixing in position Honne wood half panelled shutters at bottom and half glazed at top for windows shutters with styles and rails of 35mm. thick, 75mm wide in two halves with panels of 25mm thick 3mm thick reeded glass for top panels fixed with wooden beading including cost of materials, labour charges, HOM of machineries complete as per specification (excluding cost of fixtures) Specification No Providing an fixing in position teak wood half paneled shutters at bottom and half glazed at top for window sutters with styles and rails of 35mm, thick, 75mm wide in two halves with panels of 25mm thick, 3mm thick reeded glass for top panels fixed with wooden beading including cost of materials, labour charges, HOM of machineries complete as per specifications. (Excluding cost of fixtures) specification No. KBS 9.34, 9.42 Page No. 60 / Item No. 9.57 / PWD SR 2013-14	Sqm							
	W		4	1.80		1.20	8.64	4255.37	36766.00
	Basic Rate	4012.00							
	Lift Charges for First Floor	2.50							
		4014.50							
	Area Weightage @ 6%	240.87							

SI No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Total	4255.37							
17	MS Bars at 0.62Kg/Mtr = 194.40 x 0.62 = 120.53 Kgs	Sqm							
	Windows		4x18	1.80			129.60		
							120.53	38.00	4580.00
18	Providing wall black boards in CM 1:3 two coats of black paint including finishing etc, complete, No. 269/ Item No. 37.30 PWD SR 2013-14	Sqm							
			1	2.00	1.32		2.64	755.78	1995.00
	Basic Rate	710.00							
	Lift Charges for First Floor	3.00							
		713.00							
	Area Weightage @ 6%	42.78							
	Total	755.78							
19	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix M7.5 with OPC cement @ 180 kgs with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. No. 12/ Item No. 4.3/ PWD SR 2013-14	Cum							
	Flooring								
	Rooms		1	25.00	5.10	0.15	19.13		
			1	25.00	1.35	0.15	5.06		
							24.19	4211.38	101863.00
	Basic Rate	3973.00							
	Area Weightage @ 6%	238.38							
	Total	4211.38							
20	KSRB 14.10-1 : Flooring with 25mm to 40mm thick polished Thandur blue stone slabs using cement mortar 1:6, 25mm thick over existing cement concrete bed or top roof laid to line and level and jointed with cement slurry mixed with pigment to match the shade of the slab, including cost of materials, labour, curing, polishing complete as per specifications. P.112 /I.14.15 PWD SR - 2013-14.	Sqm							
	Room1 & 2		1	25.00	5.10		127.50		
	Skirting		2	25.00	0.10		5.00		
			2	5.10	0.10		1.02		
							133.52	1020.78	136295.00
	Basic Rate	960.00							
	Lift Charges for First Floor	3.00							
		963.00							
	Area Weightage @ 6%	57.78							
	Total	1020.78							

SI No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
21	KSRB 15-14.1 : Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface including priming coat with distemper primer after thoroughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labours, complete as per specifications P.126 / I. 15.49.1 PWD SR 2013-14	Sqm							
			Qty Vide Item No.9+10				492.09		
							492.09	59.36	29210.00
	Basic Rate	56.00							
	Area Weightage @ 6%	3.36							
	Total	59.36							
22	KSRB 15-16.1: providing and finishing external walls in tow coats with water proof cement paint of approve brand and shade to give an even shade after thorough brooming the surface to remove all dirt and losse powdered material, free from mortar dops and other foreign matter cost of materials, labours, complete as per specification with Primer P.127 / I.15.53.2 PWD SR 2013-14	Cum							
			Qty Vide Item No.12				234.95		
							234.95	78.44	18429.00
	Basic Rate	74.00							
	Area Weightage @ 6%	4.44							
	Total	78.44							
23	KSRB 15-17.6: Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications. Page No. 128 / Item No. 15.60.1 / PWD SR 2013-14	Sqm							
	Doors		1x2	1.05		2.10	4.41		
	Windows		4x2	1.80		1.20	17.28		
							21.69	78.44	1701.00
	Basic Rate	74.00							
	Area Weightage @ 6%	4.44							
	Total	78.44							
24	KSRB 4-5: Providing lath plaster with cement mortar 1:3 5cms thick with 6mm dia mild steel bars at 20 cms c to c both horizontally and vertically fixing chicken mesh for drop chajja, facia, backing to cup boards including cost of all materials, labour, providing and removing form work HOM of machineries, curing, complete as per specifications. Page No. 16 / Item No. 4.27/ PWD SR 2013-14	Sqm							
			1	25.00		0.60	15.00	895.70	13436.00
	Basic Rate	845.00							
	Area Weightage @ 6%	50.70							
	Total	895.70							
PART - 3 ELECTRICAL AND FITTINGS									

SI No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
25	Groove Cutting : Supplying ... dia 2mm/2.5mm thick heavy gauge PVC Conduit Pipe with bends metal junction boxes adhesive paste etc., and bracing U or J hooks and cement plastering up to the surface of the brick level and run with 18 SWG GI fish wire run through out the conduit wherever necessary KPWD SR 2010-11 (P-2,I-3)	Mtrs							
	32 mm dia 2.5mm thick		1	60.00			60.00	68.00	4080.00
26	Supplying and flush mounting teak wooden box with out front plank made of not less than 12mm thick wood after due groove cutting necessary masonry patch work complete. KPWD SR 2010-11 (P-3, I-6)	Each							
	10"X7"X3" (300X228X76mm)		2				2	68.00	136.00
	8"X6"X3" (300X228X76mm)		2				2	52.00	104.00
27	Supplying and fixing PVC/metal conduit accessories special type Junction Box (I. 5/P. 3) KPWD SR 2010-11	Each							
	32 mm Junction Box		20				20	29.00	580.00
	Deep 32 mm Junction Box		4				4	33.00	132.00
	Fan Box 18 /SWG		4				4	57.00	228.00
28	Point Wiring using copper wire with switch Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using Copper PVC insulated multi strand 2x1.5 Sqmm copper wire with a 6 Amps flush type SP control switch shall be fixed on the existing plastic sheet gang box the other end of the wires shall be terminated with sufficient loose length in a wood PVC round block complete for each outlet KPWD SR 2010-11 (P.3/I.8)	Each							
	Point Wiring using Class A Materials								
	a) Short point upto 3Mtr from tapping point to out let via switch		5				5.00	175.00	875.00
	b) Medium point above 3mtr upto 6mtr from tapping point to out let via switch		5				5.00	260.00	1300.00
	C) Long point above 6mtrs upto 10mtrs from tapping point to outlet via switch		4				4.00	368.00	1472.00
29	Supplying and fixing superior quality modular switch mounting polyorbonate plate with necessary supporting back plate with required nos. of machines screws, bolts nuts etc., complete on the existing metal/PVC box KPWD SR 2010-11 (P-7, I-17)	Each							
	1 to 3 Modular		2				2	82.00	164.00
	8 Modular		2				2	175.00	350.00
30	Supplying and fixing of modular switch / socket/Stepped electrical fan regulator / dimmer / telephone socket etc on existing modular switch plate KPWD SR 2010-11 (P.8/I.18)	Each							
	6Amps one way.		25				25	96.00	2400.00
	6Amps 3way Socket.		6				6	165.00	990.00
	Stepped Fan Regulator		4				4	520.00	2080.00

SI No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
31	Supply patty type fluorescent tube light fitting of 4' - 36/40 watts fluorescent tube fitting, made out of M.S. Sheet and stove enameled with low loss open construction copper wound ferromagnetic ballast, starter, locking, locking type brass contact holder mounted on double fold type sheet base fully wired for used on 230 Volts A C Supply including fluourescent tube KPWD SR 2010-11 (P.16/I.2)								
	Group 'A'	Each	6				6	380.00	2280.00
32	Supplying of Incandescent lamps KPWD SR 2010-11 (P.44/I.22)								
	B.C. 100Watts		5				5	14.00	70.00
33	Supplying capacitor type ceiling fan complete with down rod blades, shackle, canopies etc., for operation on 230 volts, 50 cycles. Single phase AC supply conforming to ISS-374-1979 and with double ball bearing system KPWD SR 2010-11 (P-23, I-23) Regulator Model (Khaitan, Crompton Geaves, Orient, Polar, Bajaj, Usha, Havells, Almonard								
		Each							
	56" Sweep (1400 mm)		4				4	1950.00	7800.00
34	Supplying and fixing 32Amps security and energy savings DP switch with key tag suitable to operate on 230 Volts 50Hz AC supply & completely wired on existing box KPWD SR 2010-11 (P.9/I.19)								
		Each							
	Group A		1				1	630.00	630.00
35	Supplying an fixing one of 230 volts PBBC bakelite staight or slant batten holder and wiring with in 60w/230 Volts lamps KPWD SR 2010-11 (P-13, I.2)								
		No							
			1				1	60.00	60.00
36	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and wiring complete as required 5-32 Amps SP KPWD SR 2010-11 (P.34/I.13)								
		Each							
			1				1	560.00	560.00
37	Supply and fixing polished wood board made of not less than 15mm thick plank on both sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc KPWD SR 2010-11 (P,32/I.2)								
	20"x20"x2.5"		1				1	285.00	285.00
38	Supplying and fixing of porcelain fuse channel with cut out on existing wooden /panel using necessary nuts, bolts and washers etc complete KPWD SR 2010-11 (P.30/I.3)								
	32 Amps		1				1	100.00	100.00

CERTIFICATE

- Assistant Engineer

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